

# ST. XAVIER'S COLLEGE JAIPUR

Nevta - Mahapura Road, Jaipur - 302029, Rajasthan, India

*Affiliated to the University of Rajasthan*

*Approved under Section 2(f) & 12(B) of the UGC Act, 1956*



## PROGRAMME OUTCOMES

**B.Sc.**

**(Bachelor of Science)**

**Department of Science**

# Programme Outcomes (POs)

The learners will be able to:

<b>PO 1.</b>	Apply theoretical knowledge to solve complex physics problems using appropriate mathematical and computational techniques
<b>PO2.</b>	Develop proficiency in designing experiments, and collecting data using laboratory equipment and critically evaluating scientific literature, experimental data, and theoretical models in Physics
<b>PO 3.</b>	Cultivate critical thinking skills to analyse problems, critical thinking through advanced mathematical learning and enabling practical applications in real-life scenarios
<b>PO 4.</b>	Conceptualise and implement mathematical functions and terminologies in computer languages and software
<b>PO 5.</b>	Elaborate concepts of Chemistry across various scientific disciplines
<b>PO 6.</b>	Perform, observe, and analyse the outcomes of chemical reactions
<b>PO 7.</b>	Illustrate the multidisciplinary approach inherent in the field of Plant Sciences
<b>PO 8.</b>	Categorise both theoretical principles and practical applications in Botany with a focus on environmental sustainability
<b>PO 9.</b>	Outline fundamental concepts related to the biology of life with an emphasis on respect towards humanity
<b>PO 10.</b>	Apply principles learnt in Zoology, enhancing their understanding of the subject

<b>PO 11.</b>	Analyse economic theories and quantitative methods to evaluate economic phenomena and propose solutions
<b>PO 12.</b>	Recognise the diverse factors influencing the global economy and decision-making processes
<b>PO 13.</b>	Interpret data, trends and make evidence-based decisions across sectors
<b>PO 14.</b>	Conduct research and design new models using statistical methodologies
<b>PO 15.</b>	Analyse spatial patterns, processes, and relationships using practical geographical approaches and other tools to understand and solve real-world problems
<b>PO 16.</b>	Evaluate environmental issues and sustainability, applying geographical concepts to address challenges related to climate change, resource management, and urban planning